

CLAIMS

1. A flexible pipe (1) for the transport of fluid in
5 the field of offshore oil production, of the type
comprising at least, from the inside outward, a
pressure sheath (2), a pressure vault comprising at
least one pressure-resistant armor (3), an intermediate
10 sheath and at least one tensile armor ply (5, 6),
characterized in that it includes, in the internal
annular space (30), formed between the pressure sheath
(2) and the intermediate sheath (4), a draining layer
(13) that allows the gases present in this annular
15 space (30) to be drained away and in that said draining
layer is formed by the short-pitch winding of at least
one elongate element (12, 14, 18, 19) that includes
transverse drainage spaces or recesses (15) that allow
the gases to drain away between the successive turns of
20 the winding in a direction approximately transverse to
said turns.

2. The flexible tubular pipe (1) as claimed in
claim 1, characterized in that the elongate element is
25 a profiled wire (12).

3. The flexible tubular pipe (1) as claimed in
claim 1, characterized in that the elongate element
forming the draining layer is made from a preformed
metal strip.

30 4. The flexible tubular pipe (1) as claimed in any
one of the preceding claims, characterized in that the
draining layer (13) is formed by a hoop surrounding the
pressure-resistant armor (3).

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5. The flexible tubular pipe (1) as claimed in any one of the preceding claims, characterized in that the lay angle of the elongate element of the draining layer is greater than 70°.

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6. The flexible tubular pipe (1) as claimed in any one of the preceding claims, characterized in that the elongate element (12) forming the draining layer (13) includes transverse recesses (15) distributed
10 longitudinally so as to be at least partly aligned with another recess in the element once it has been wound, in order to form transverse drainage channels (7).

7. The flexible tubular pipe (1) as claimed in any
15 one of the preceding claims, characterized in that the elongate element has, in its profile, a longitudinal space so as to allow the gas to flow within any one turn.

20 8. The flexible tubular pipe (1) as claimed in any one of the preceding claims, characterized in that the elongate element forming the draining layer (13) is made entirely or partly of a polymer material.

25 9. The flexible tubular pipe (1) as claimed in claim 1, characterized in that the draining layer is formed by the winding of two different elongate elements (18, 19).